

DEPARTMENT OF ECOLOGY
INSPECTION REPORT

TO: Files, Dan Cargill
DATE OF VISIT: 10/21/87
NEW INDUSTRY:

INSPECTOR: Richard Koch
PERMIT NO: WA-000000-0
PERMIT EXPIRES:

TYPE OF INSPECTION

PERMIT APPLICATION	<u> </u>	PERMIT RENEWAL	<u> </u>	PERMIT COMPLIANCE	<u> </u>
COMPLAINT	<u> X </u>	ENFORCEMENT	<u> </u>	DROP IN	<u> </u>

FACILITY: Duwamish Shipyard, Inc.
ADDRESS: 5658 W. Marginal Way S.W. MAP: 26 QUAD: A3
CITY: Seattle ZIP 98106 COUNTY: King PH. NO. 206-767-4880

PERSON CONTACTED: Don Meberg, Dave Larson
TYPE OF FACILITY: Shipyard
RECEIVING WATER: Duwamish River
TYPE OF TREATMENT SYSTEM: BMPs

OPERATION: Satis Fair Unsat X ;
Complies with permit conditions no

DESCRIPTION: I arrived at 1200 hours, the end of the lunch break. No sandblasting was in progress but resumed shortly thereafter. Tarps were hung over the ends of the drydock with a vessel already sandblasted and being painted green. A vessel was also on the marine railway for sandblasting. No provisions had been made to contain sandblast grits.

The grit distribution seemed to be north-south. Grit was 20 to 30 feet either side of the vessel and about 100 feet north of the vessel into the river.

The vessel on the way had a red bottom and blue sides above the water line. The grit in the water and on the dock area was predominately bluish. Some reddish grit was in the water. The grit and paint detritus in the water and on the river sediments was from the vessel on the way. Photographs and sample were taken. A soil sample was taken of the grit covered sediments at the end of the way. Two samples of the grit/paint scum were taken, one for total priority pollutant metals and one for total recoverable priority pollutant metals.

I asked Don Meberg why there was no containment for sandblasting grit for vessels on the marine railway. Don asked for suggestions on what I thought should or could be done. I suggested some system of tarpaulins be used to contain the grits. A tarpaulin at the end of the vessel appeared essential. A tarpaulin between the vessel and the waterway looked probable.

-DEC-87
:29:30

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: DOE-283I

DUWAMISH SHIPYARD

Sample No: 87 447869 Begin Sample Date: 87/10/21 : Source: Sediment

Laboratory: WE Description: 1210

Metals - EP Toxicity		EPT-Sld	
Parameter		Result	Units
Arsenic	As-Total	20	ug/l
Barium	Ba-Total	260	ug/l
Cadmium	Cd-Total	3.4	ug/l
Chromium	Cr-Total	5U	ug/l
Lead	Pb-Total	310	ug/l
Silver	Ag-Total	0.3	ug/l
Selenium	Se-Total	1U	ug/l
Mercury	Hg-Total	0.05	ug/l

RECEIVED
DEC 8 1987
EPA REGION X
EPA REGION X
EPA REGION X

(Sample Complete)

-DEC-87
:29:30

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: DOE-283I

DUWAMISH SHIPYARD

Sample No: 87 447867 Begin Sample Date: 87/10/21 : Source: Water (Ge
boratory: WE Description: 1200

Metals - PP		Water-Total	
Parameter		Result	Units
Arsenic	As-Total	17	ug/l
Beryllium	Be-Total	0.2U	ug/l
Cadmium	Cd-Total	0.5	ug/l
Chromium	Cr-Total	18	ug/l
Copper	Cu-Total	20300	ug/l
Lead	Pb-Total	38	ug/l
Thallium	Tl-Total	1U	ug/l
Nickel	Ni-Total	10	ug/l
Silver	Ag-Total	6.8	ug/l
Zinc	Zn-Total	5240	ug/l
Antimony	Sb-Total	1U	ug/l
Selenium	Se-Total	28	ug/l
Mercury	Hg-Total	0.05	ug/l

RECEIVED

DEC 28 1987

DEPARTMENT OF ECOLOGY
NORTHWEST REGION

(Sample Complete)

-DEC-87
:29:30

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: DOE-283I

DUWAMISH SHIPYARD

Sample No: 87 447868 Begin Sample Date: 87/10/21 : Source: Water (Ge
boratory: WE Description: 1205

Metals - PP		Water-Total	
Parameter		Result	Units
Arsenic	As-Total	8	ug/l
Beryllium	Be-Total	0.2U	ug/l
Cadmium	Cd-Total	0.3	ug/l
Chromium	Cr-Total	22	ug/l
Copper	Cu-Total	25500	ug/l
Lead	Pb-Total	44	ug/l
Thallium	Tl-Total	1U	ug/l
Nickel	Ni-Total	14	ug/l
Silver	Ag-Total	3.5	ug/l
Zinc	Zn-Total	4340	ug/l
Antimony	Sb-Total	1U	ug/l
Selenium	Se-Total	37	ug/l
Mercury	Hg-Total	0.05	ug/l

(Sample Complete)

7-DEC-87
11:29:30

EPA Region X Lab Management System
Sample/Project Analysis Results

Project: DOE-283I

DUWAMISH SHIPYARD

Sample No: 87 447869 Begin Sample Date: 87/10/21 : Source: Sediment

Laboratory: WE

Description: 1210

Metals - EP Toxicity		EPT-Sld	
Parameter		Result	Units
Arsenic	As-Total	20	ug/l
Barium	Ba-Total	260	ug/l
Cadmium	Cd-Total	3.4	ug/l
Chromium	Cr-Total	5U	ug/l
Lead	Pb-Total	310	ug/l
Silver	Ag-Total	0.3	ug/l
Selenium	Se-Total	1U	ug/l
Mercury	Hg-Total	0.05	ug/l

RECEIVED
DEC 8 1987

ECOTOLOGY
DIVISION

(Sample Complete)

PHOTO No. 3

DATE: OCT. 21, 1987

TIME: 12:00

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION: Spent
Sand blasting grit
on dock east of marine railway

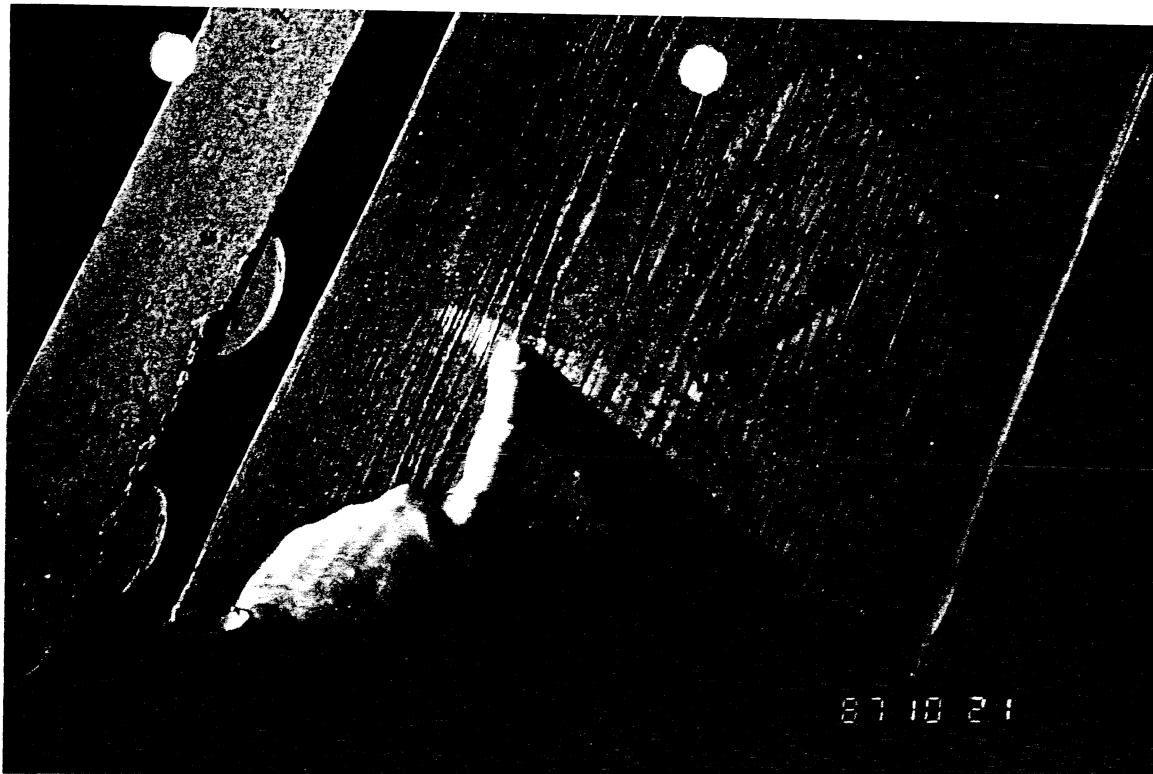


PHOTO No. 4

DATE: OCT. 21, 1987

TIME: 12:00

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION: Spent
Sand blasting
grits on dock east of marine railway



PHOTO No. 5

DATE: OCT. 21, 1987

TIME: 12:05

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:
*Spent sandblasting
grit on river bank and deck of marine way
no tarpaulins, screens or barriers to
contain grit*



PHOTO No. 6

DATE: OCT. 21, 1987

TIME: 12:05

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:
*spent sandblast
grit on river bank and deck of marine way
bluish gray match color of vessel above
water line*

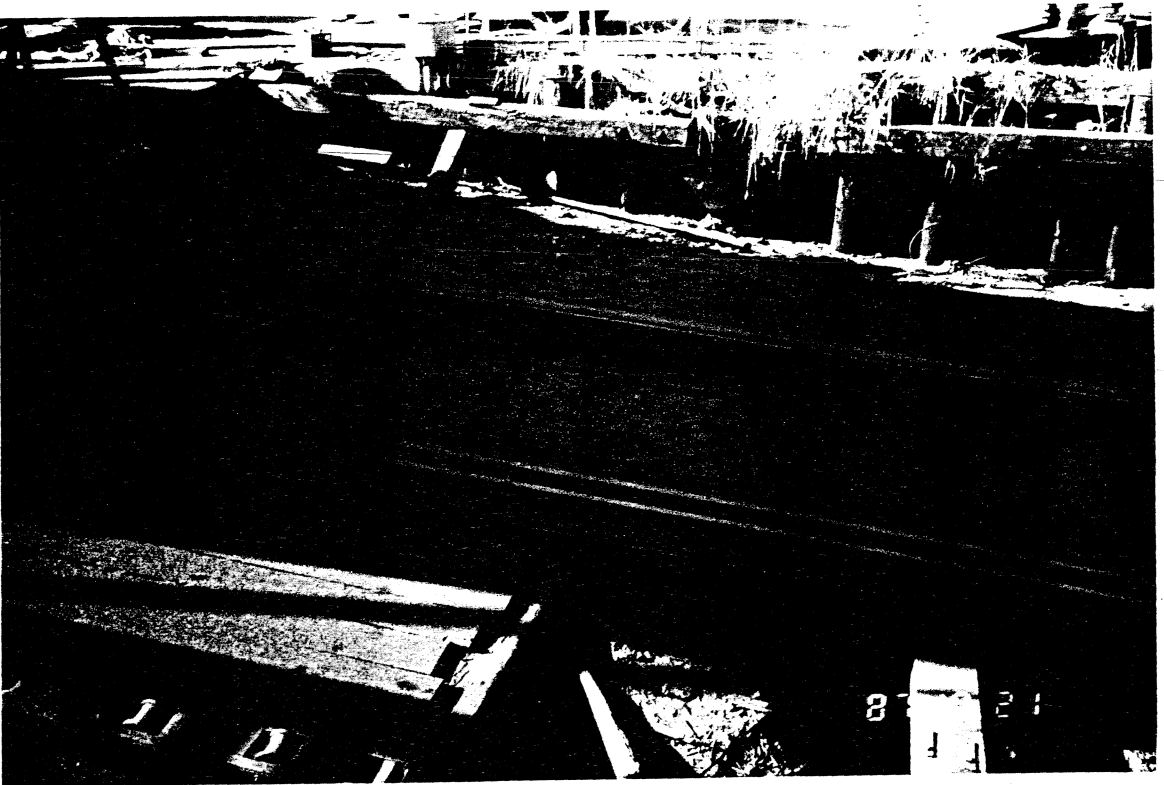


PHOTO No 9

DATE: OCT. 21, 1987

TIME: 12:00

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:
fishing vessel
on marine way

hull sandblasted.

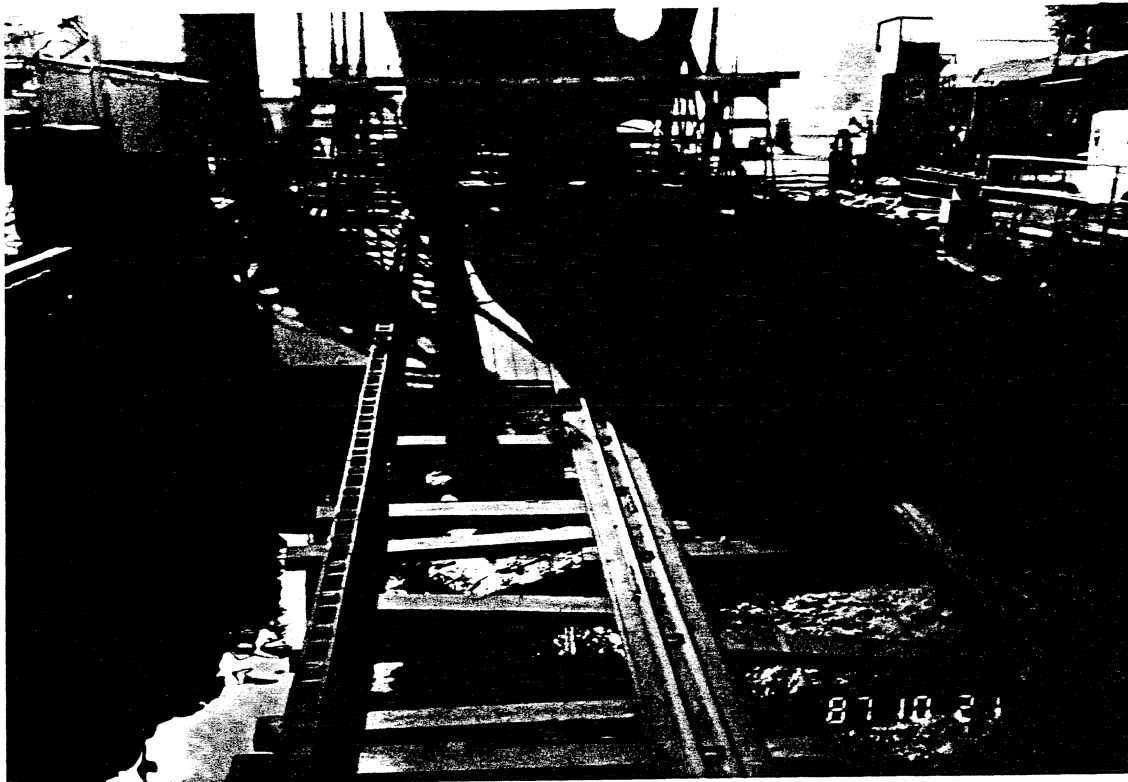


PHOTO No 11

DATE: OCT. 21, 1987

TIME: 12:

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:
marine way

spent sandblasting grit, etc.

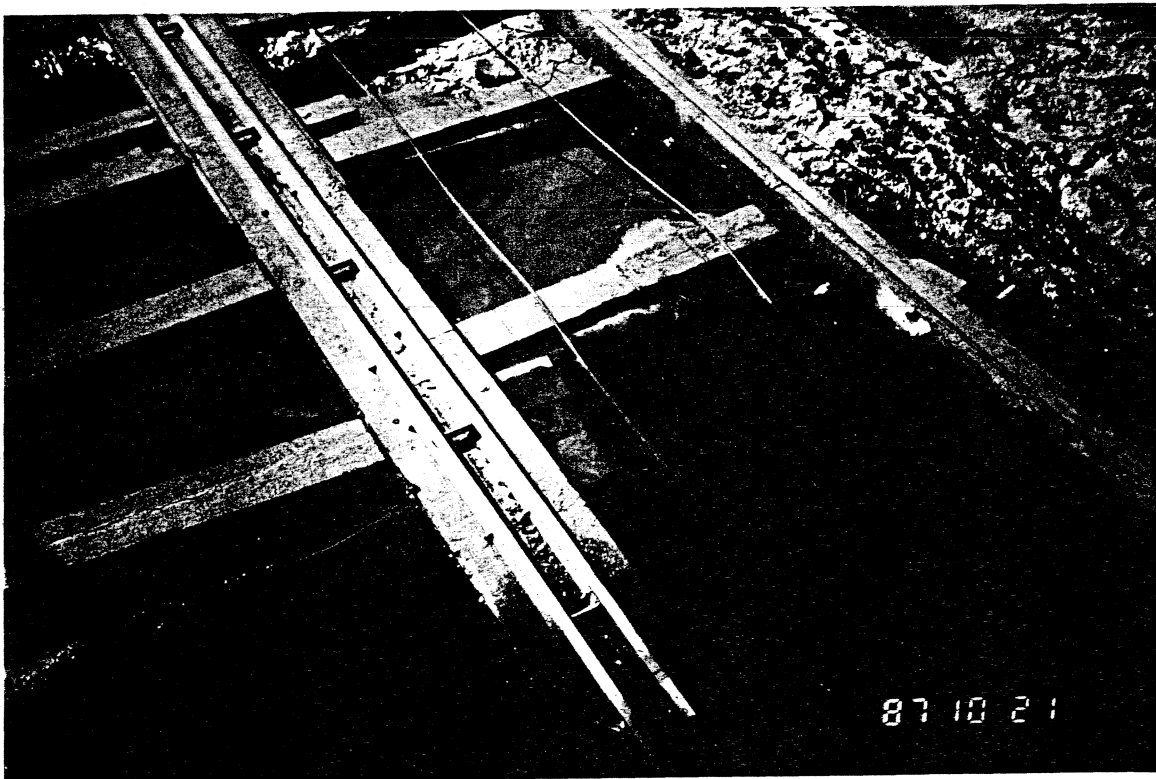


PHOTO No 10

DATE: OCT. 21, 1987

TIME: 12:00

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:

*spent sandblast
grit and paint debris*



PHOTO No 12

DATE: OCT. 21, 1987

TIME: 12:10

TAKEN BY:
RICHARD KOCH

WITNESS:

FILM: KODAK CM 400

CAMERA:

CANON SURE SHOT

LOCATION:
DUWAMISH SHIPYARD
MARINE RAILWAY

DESCRIPTION:

*spent sandblast grit and paint debris on river bank
area of sampling*

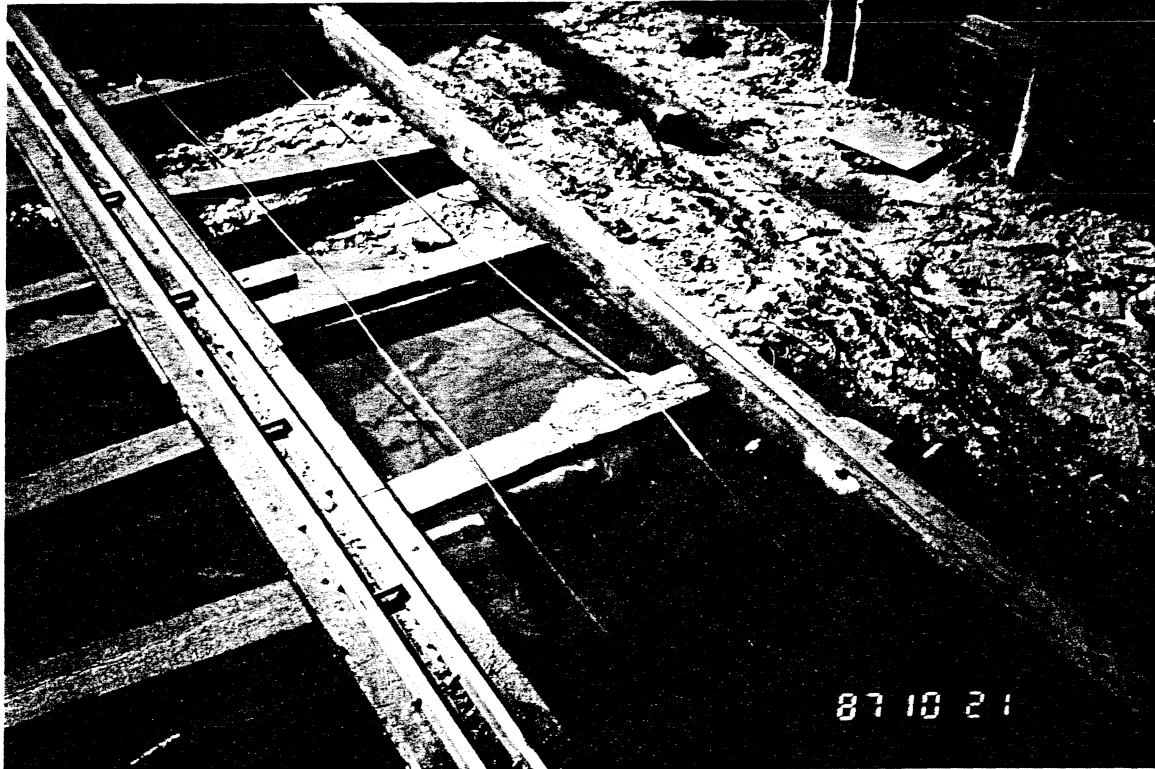


PHOTO No _____

DATE: _OCT. 21, 1987_

TIME: _12:00_

TAKEN BY:
RICHARD KOCH _____

WITNESS:

FILM: _KODAK CM 400_

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD__
MARINE RAILWAY_____

DESCRIPTION:

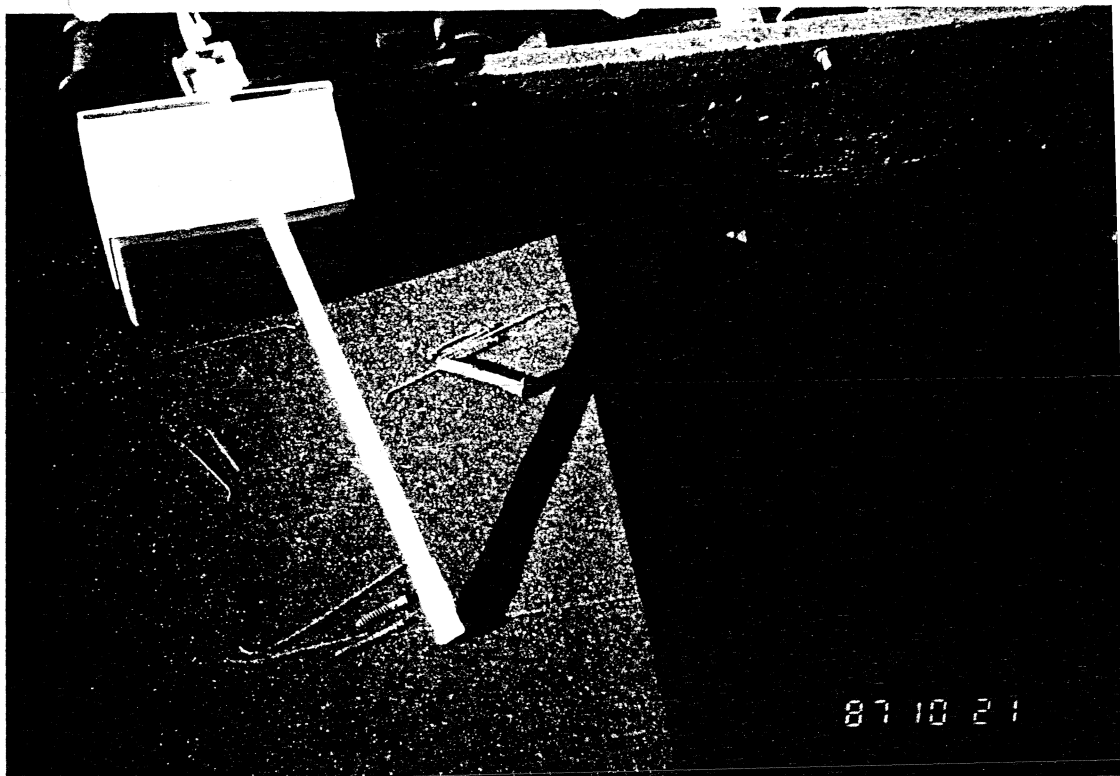


PHOTO No _____

DATE: _OCT. 21, 1987_

TIME: _12:_____

TAKEN BY:
RICHARD KOCH _____

WITNESS:

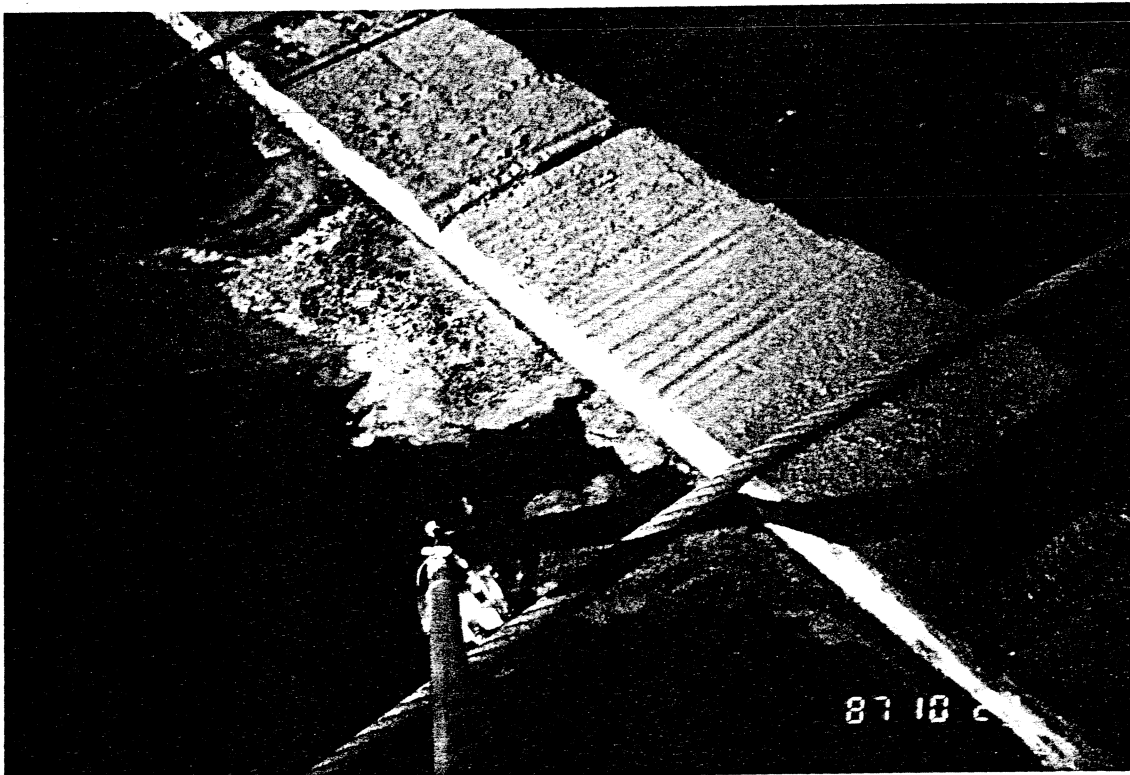
FILM: _KODAK CM 400_

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD__
MARINE RAILWAY_____

DESCRIPTION:



*Sampling of surface scum of gut
and paint particulate*

PHOTO No _____

DATE: OCT. 21, 1987

TIME: 12:00 _____

TAKEN BY:
RICHARD KOCH _____

WITNESS:

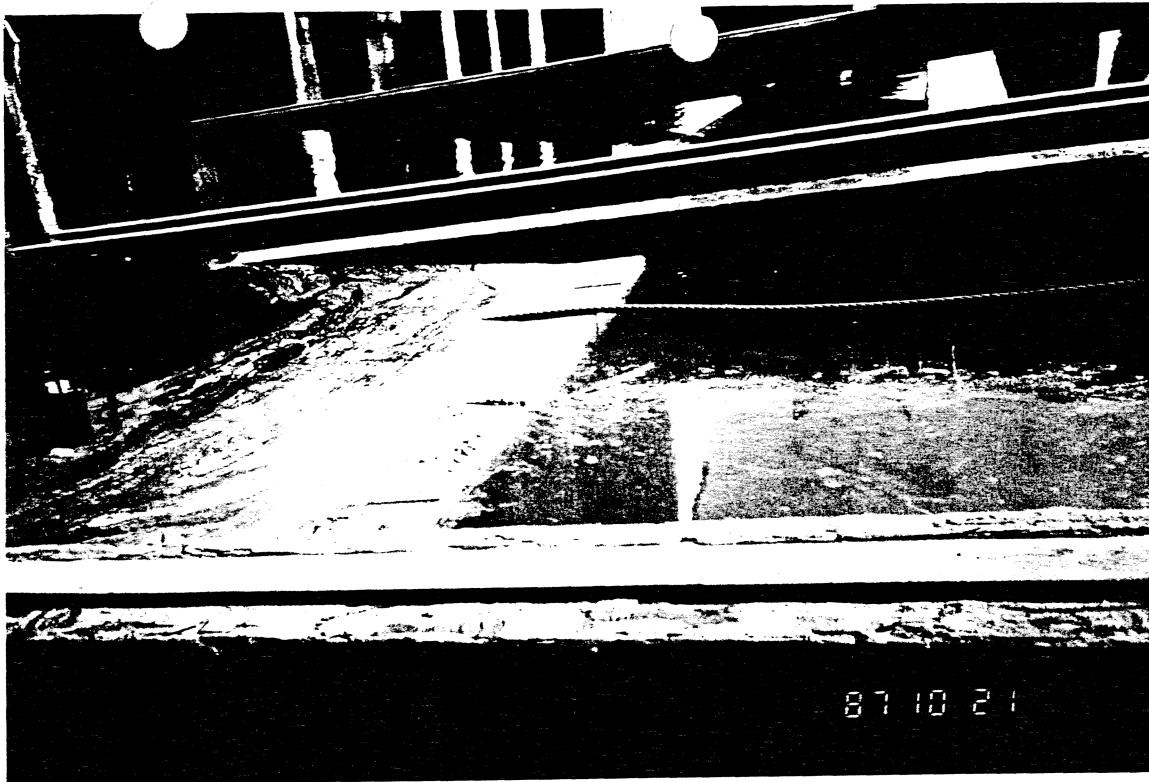
FILM: KODAK CM 400 _____

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD _____
MARINE RAILWAY _____

DESCRIPTION:



surface scum of grit and paint particulate

PHOTO No _____

DATE: OCT. 21, 1987

TIME: 12:30 _____

TAKEN BY:
RICHARD KOCH _____

WITNESS:

FILM: KODAK CM 400 _____

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD _____
MARINE RAILWAY _____

DESCRIPTION:



*Sandblasting resumes on bow of vessel on
marine way*

PHOTO No _____

DATE: OCT. 21, 1987

TIME: 12:00 _____

TAKEN BY:
RICHARD KOCH _____

WITNESS:

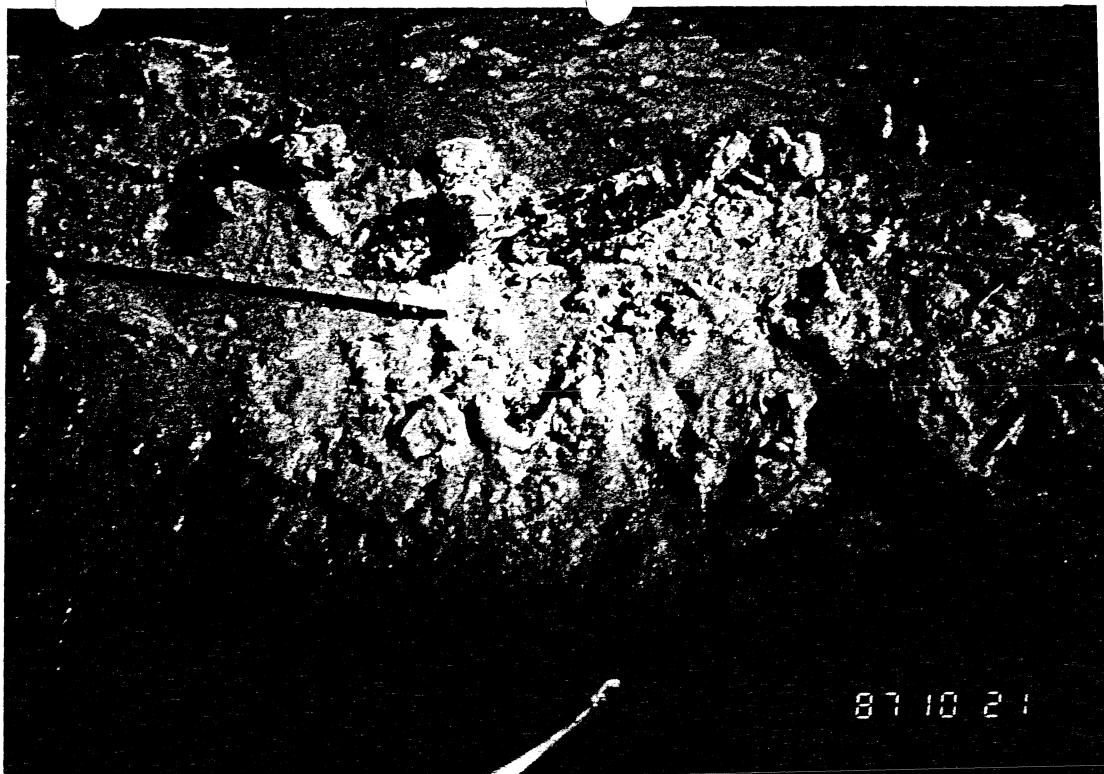
FILM: KODAK CM 400 _____

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD ____
MARINE RAILWAY _____

DESCRIPTION:



*Sampling of river bank mud & spent
gilt & paint detritus*

PHOTO No _____

DATE: OCT. 21, 1987

TIME: 12: _____

TAKEN BY:
RICHARD KOCH _____

WITNESS:

FILM: KODAK CM 400 _____

CAMERA:

CANON SURE SHOT _____

LOCATION:
DUWAMISH SHIPYARD ____
MARINE RAILWAY _____

DESCRIPTION:



*Soil sample of spent gilt and paint
detritus from river bank*